

WHAT IS CLAIMED IS:

- 5 SUB 1. A print apparatus capable of forming a color image by applying ink materials of plural colors in different amounts onto a print medium while scanning a recording head in two directions,
- 10 wherein, in order to make orders of application of an ink material of a certain color out of ink materials of plural colors applied in at least one kind of amount onto a pixel area of a secondary color to form the secondary color, symmetric with respect to an ink material of another color, at least the ink material of said certain color is applied plural times onto said pixel area.
- 15 2. The print apparatus according to Claim 1, wherein said ink material of another color is applied plural times onto said pixel area.
- 20 3. The print apparatus according to Claim 1, wherein dots of the ink materials of the plural colors applied onto said pixel area overlap at least in part.
- 25 4. The print apparatus according to Claim 2, wherein a plurality of dots of the secondary color are laid in different application orders of the ink material of said certain color and the ink material of said another color in said pixel area.

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5. The print apparatus according to Claim 1,
wherein said recording head comprises a plurality of
recording elements arranged in such a manner that
recording elements for applying the ink material of
said certain color are symmetric in a scanning
direction with respect to recording element for
applying the ink material of said another color.

6. The print apparatus according to Claim 5,
wherein said recording head comprises recording
elements for applying at least ink materials of cyan,
magenta, and yellow and wherein with respect to a
recording element corresponding to either one color the
recording elements corresponding to the other colors
are located in symmetry in the scanning direction.

7. The print apparatus according to Claim 5,
wherein said recording head comprises two sets of
recording elements for applying at least ink materials
of cyan, magenta, and yellow arranged in symmetry in
the scanning direction.

8. The print apparatus according to Claim 6 or 7,
wherein said recording head further comprises a
recording element for applying black ink.

9. The print apparatus according to Claim 5,

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wherein the ink materials of the plural colors applied to said pixel area are applied by one scan of said recording head.

5 10. The printing apparatus according to Claim 5, wherein, in said recording heads having symmetric arrangement, the recording elements for applying ink materials of different amounts are arranged alternately.

10 11. The printing apparatus according to Claim 10, wherein, in said recording heads having symmetric arrangement, the recording elements for applying ink materials of said different amounts are arranged
15 alternately and in a reverse order.

20 12. The print apparatus according to Claim 1, wherein the ink materials of the plural colors applied to said pixel area are applied by plural scans in different directions of said recording head.

25 13. The print apparatus according to Claim 1, comprising a memory for storing data for selectively applying the ink materials of said plural colors onto the print medium in accordance with the color image and for storing data for enabling the ink material of said certain color to be applied plural times onto said

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pixel area.

14. The print apparatus according to Claim 13,
wherein said memory is a print buffer.

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15. The print apparatus according to Claim 6,
comprising a memory for storing data for selectively
applying the ink materials of said plural colors onto
the print medium in accordance with the color image, in
correspondence to each of said plurality of recording
elements.

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16. The printing apparatus according to Claim 1,
capable of executing a first mode for applying ink
materials with a relatively larger amount and a second
mode for applying ink materials with a relatively
smaller amount.

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17. The printing apparatus according to Claim 1,
wherein the ink material of a relatively larger amount,
the ink material of a relatively smaller amount and the
ink materials of relatively larger and smaller amounts
are applied onto said pixel area.

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18. The print apparatus according to either one
of Claims 1 to 17, wherein said recording head ejects
the ink materials by heat.

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19. A print apparatus capable of forming a color image by applying ink materials of plural colors in different amounts onto a print medium while scanning a recording head in two directions,

5 wherein, in order to make orders of application of an ink material of a certain color out of ink materials of plural colors applied onto in at least one kind of amount a pixel area of a process color to form the process color, symmetric with respect to an ink
10 material of another color, at least the ink material of said certain color is applied plural times onto said pixel area.

20. A print method capable of forming a color
15 image by applying ink materials of plural colors in different amounts onto a print medium while scanning a recording head in two directions, said method comprising:

20 a first step of applying an ink material of a certain color in at least one kind of amount for forming a secondary color in a pixel area of said secondary color;

25 a second step of applying an ink material of another color in said amount onto said pixel area for forming said secondary color in combination with said certain color, after the application of the ink of said certain color; and

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a third step of applying the ink material of said certain color in said amount onto said pixel area, after the application of the ink material of said another color.

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21. The print method according to Claim 20, wherein said recording head comprises two sets of recording elements for applying the ink material of said certain color, which are arranged in symmetry in a scanning direction with respect to a recording element for applying the ink material of said another color, and

wherein said first to third steps are carried out by one scan of said recording head.

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22. A print method capable of forming a color image by applying ink materials of plural colors in different amounts onto a print medium while scanning a recording head in two directions, said method comprising:

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a first step of applying an ink material of a certain color for forming a secondary color in a pixel area of the secondary color and an ink material of another color for forming said secondary color in combination with the certain color, in the order named, in at least one kind of amount onto said pixel area; and

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a second step of applying the ink material of said certain color and the ink material of said another color in an order symmetric with said order, in said amount onto said pixel area.

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23. The print method according to Claim 22, wherein said recording head comprises two sets of recording elements for applying the ink material of said certain color and recording elements for applying the ink material of said another color arranged in symmetry in the scanning direction, and

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wherein said first step and said second step are carried out by one scan of said recording head.

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24. The print method according to Claim 23, wherein said first step and said second step are carried out by a plurality of scans in different directions of said recording head.

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25. The printing apparatus capable of forming a color image by applying ink materials of plural colors in different amounts onto a print medium while scanning a recording head,

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wherein in said recording head, with respect to the ink material of at least one color, first and second arrays of recording elements, in which the recording elements for applying ink materials of different amounts are arranged with a predetermined

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pitch, are arranged in the direction of said scanning,
and, in said first and second arrays of the recording
elements, the recording elements for appying ink
materials of a same amount are arranged with a
5 displacement by said predetermined pitch in the
direction of said array.

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